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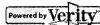
Abstract: PURPOSE: To obtain the titled composite porous membrane capable of accurately measuring a potential or a change in the electric current generated when used by forming an extremely thin electrically conductive layer on the surface of a membranous material having fine pores to make the surface potential freely controllable.

CONSTITUTION: The electrically conductive layer 2 such as a metallic layer is formed by sputtering on one surface of a porous membrane 1 of polysulfone, etc., having fine pores, and a lead wire is fixed to the end part of the metallic layer to produce a composite porous membrane having a metallic thin film electrode on one surface. The composite porous membrane is set between the chambers I and II of a device 10 as a diaphragm and used for filtration and separation. A fluid contg. fine particles or molecules to be separated such as a latex obtained by dispersing and stabilizing spherical particles of polystyrene with a nonionic surfactant is introduced under pressure into the chamber I from an inlet 11, and a voltage is impressed on the conductive layer 2 from the outside through the lead wire. The substance to be separated is permeated through the composite porous membrane, collected in the chamber II, and discharged from an outlet 14.

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